

Title: WAFER ENGINE  
Docket No.: ASYS8196US0  
Serial No.: Unknown  
Confirm No: Unknown  
Filed: Herewith

Inventor(s): Anthony C. Bonora et al  
Attorney: Scott D. Sanford  
Phone: (415) 362-3800  
Express Mail No.: EL670726207US

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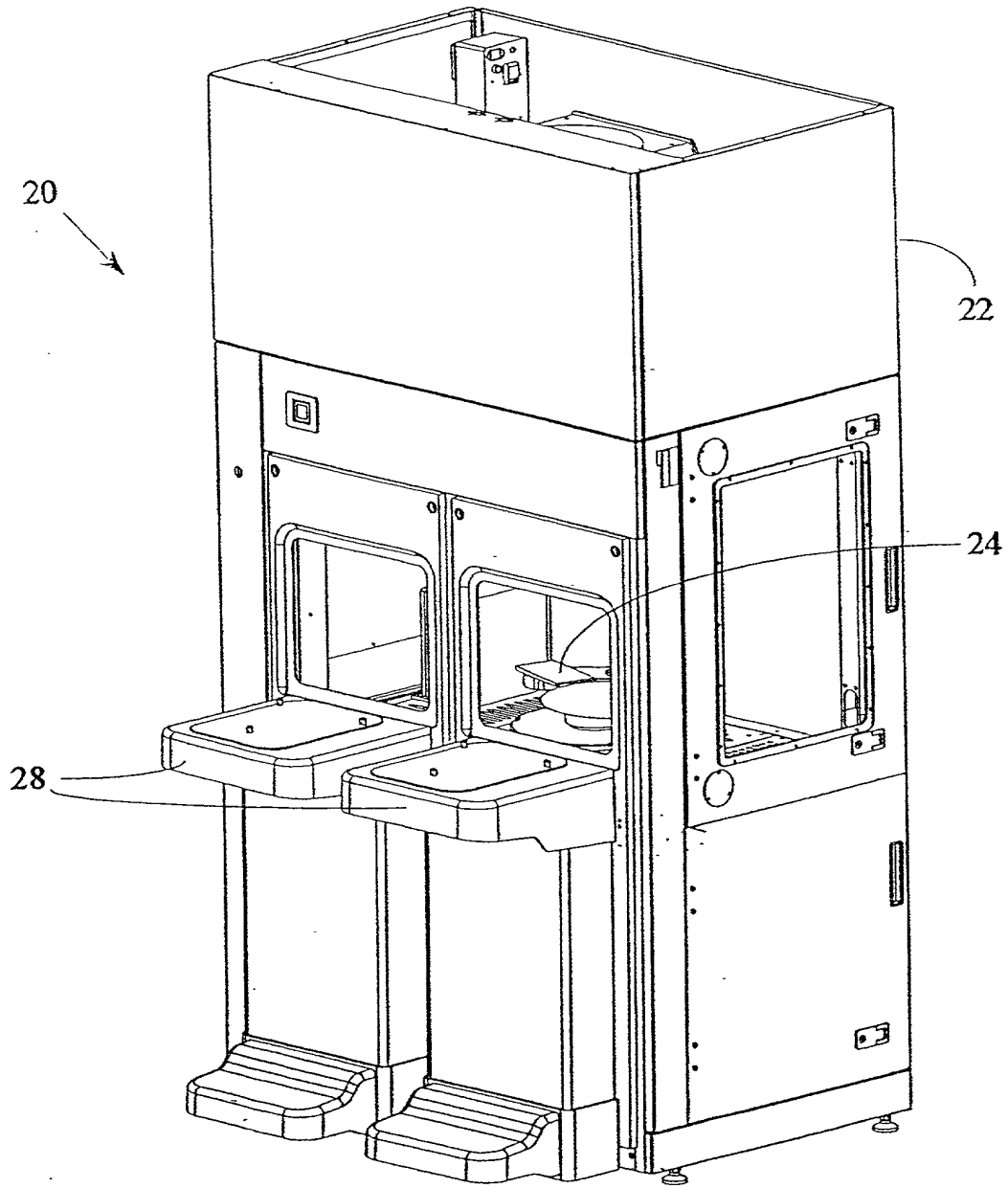
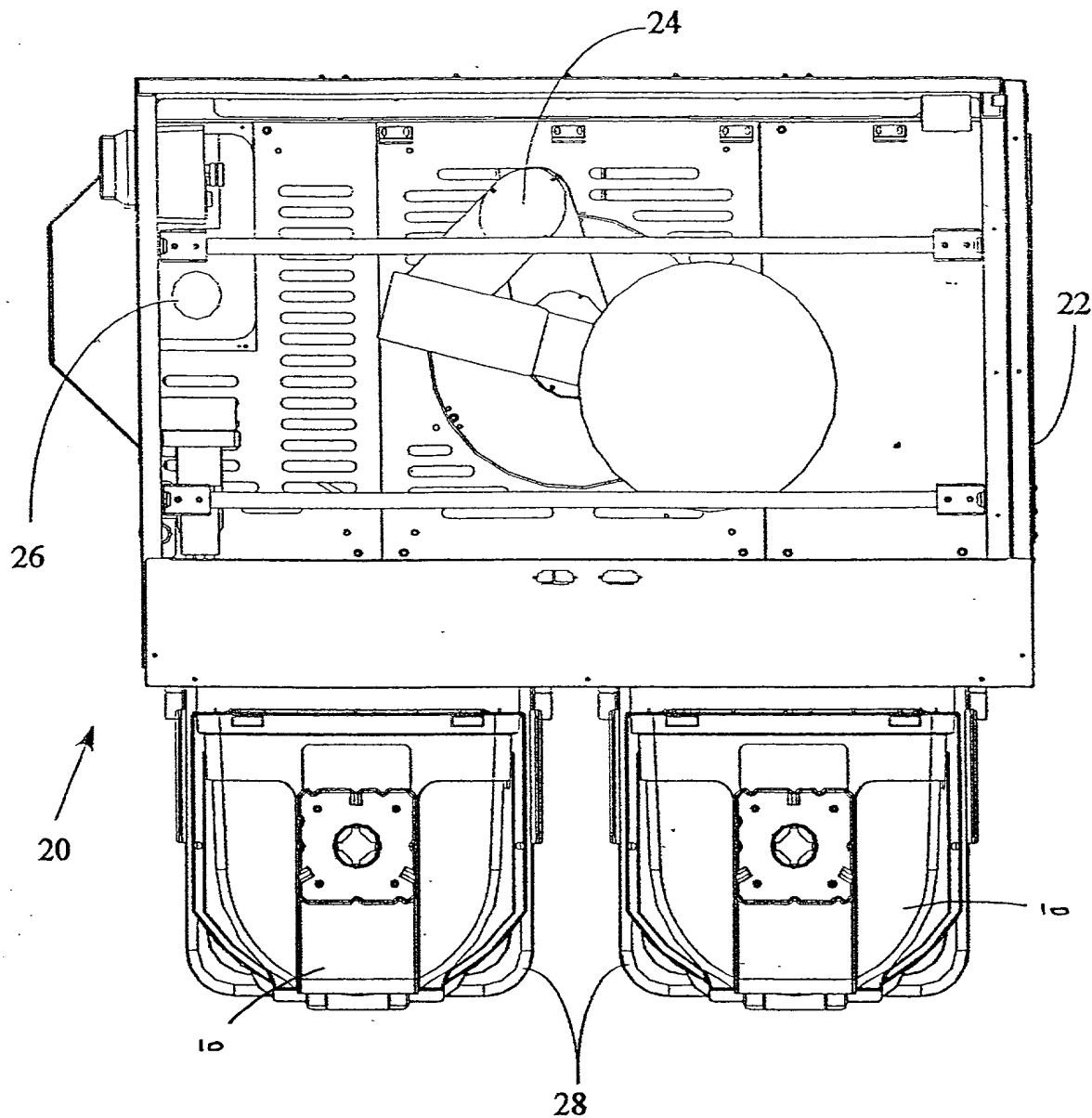


FIG. 1



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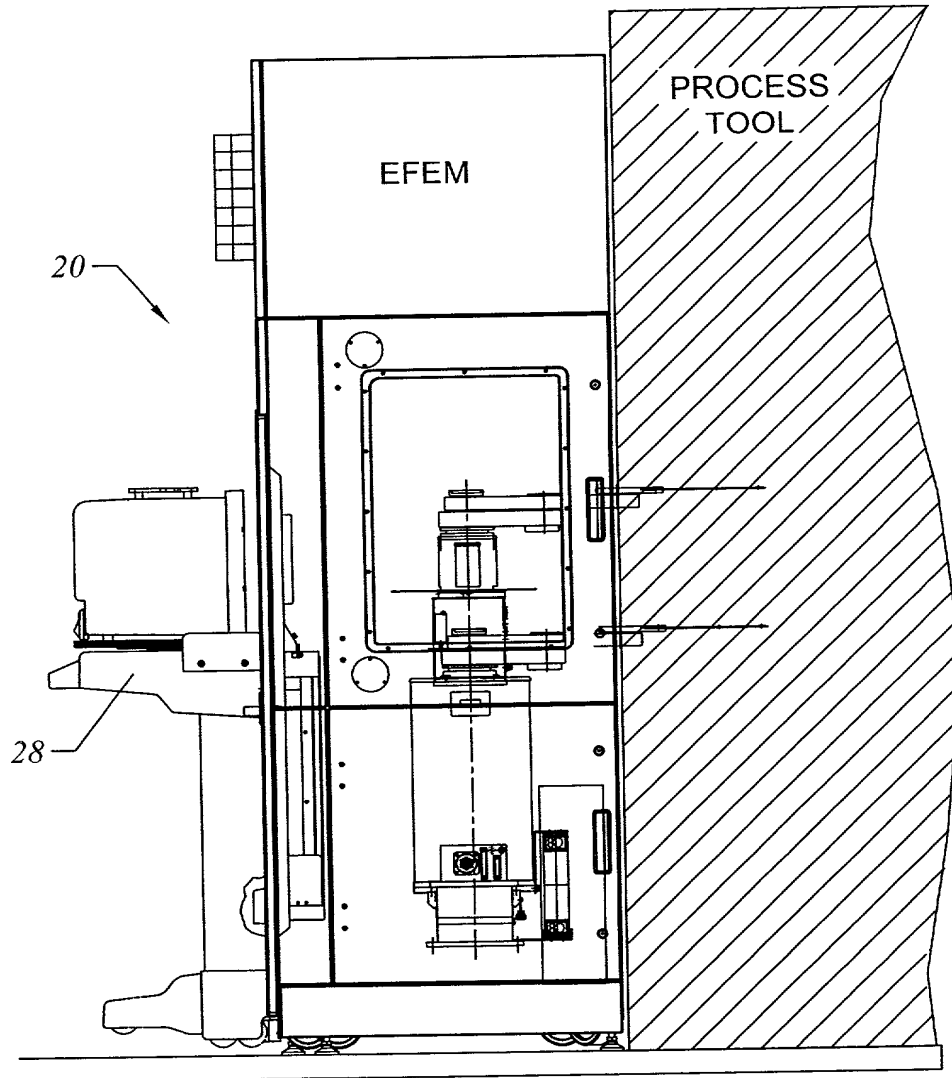


FIG. 3

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[illegible]

FIG. 4

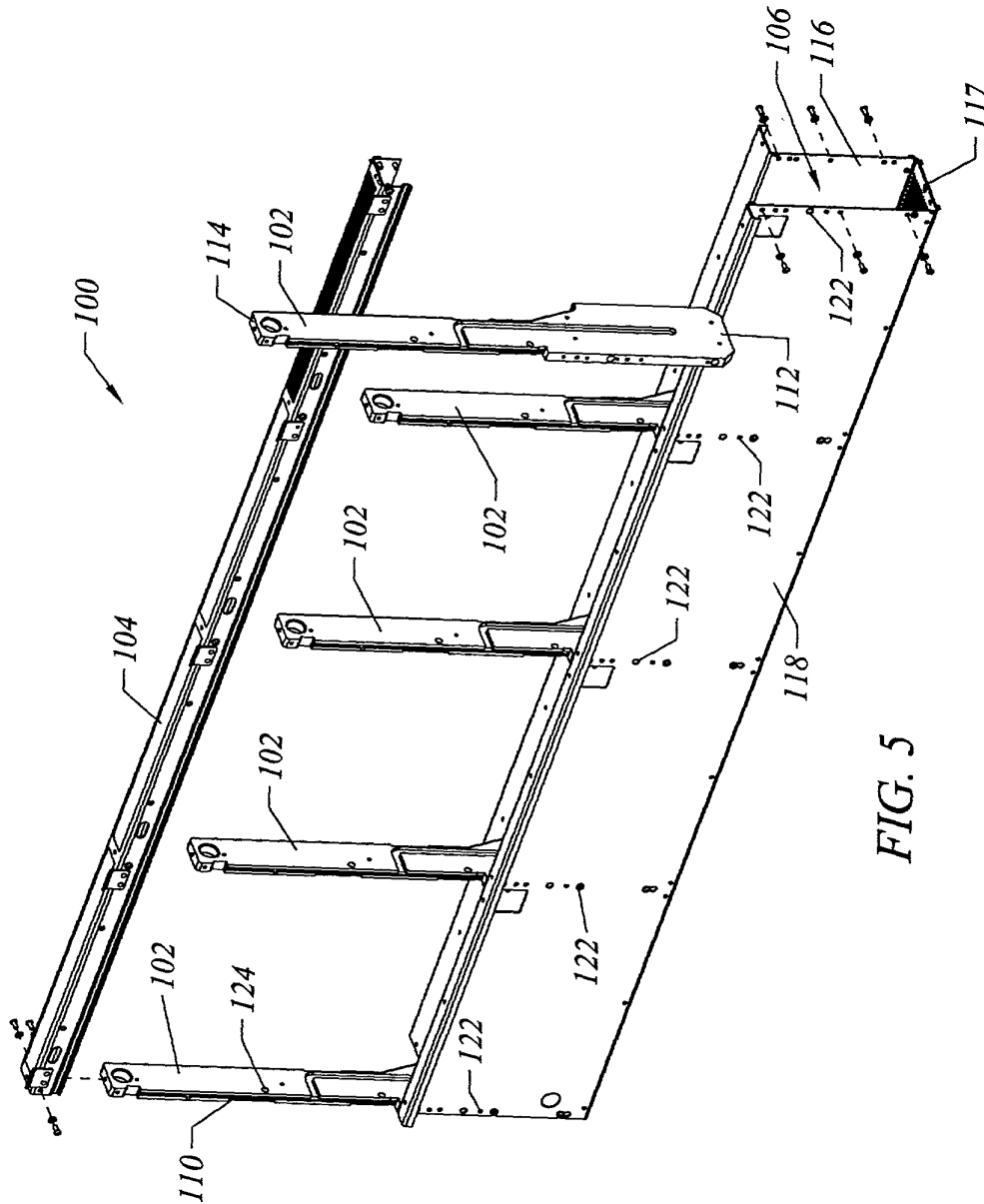


FIG. 5

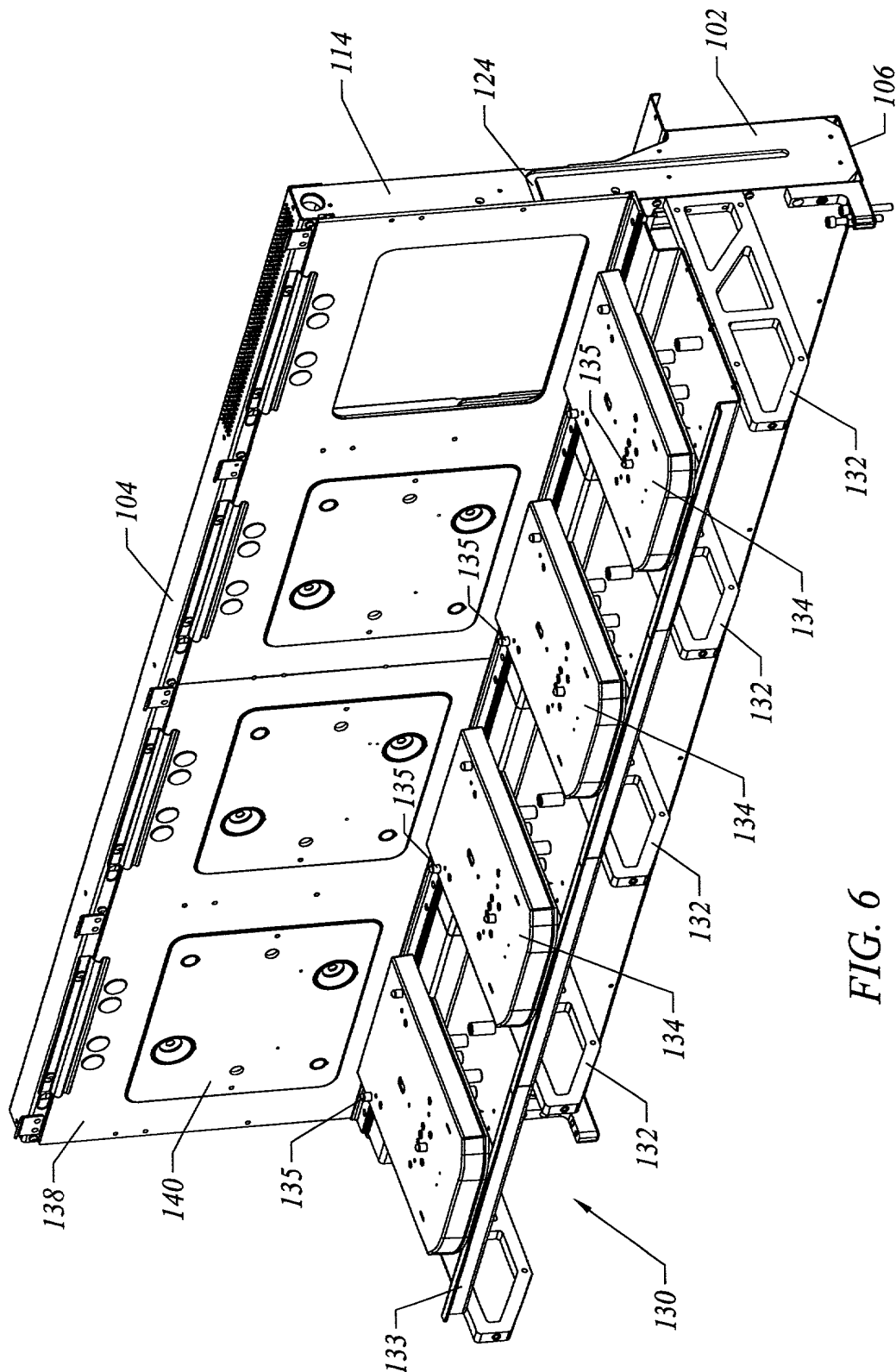


FIG. 6

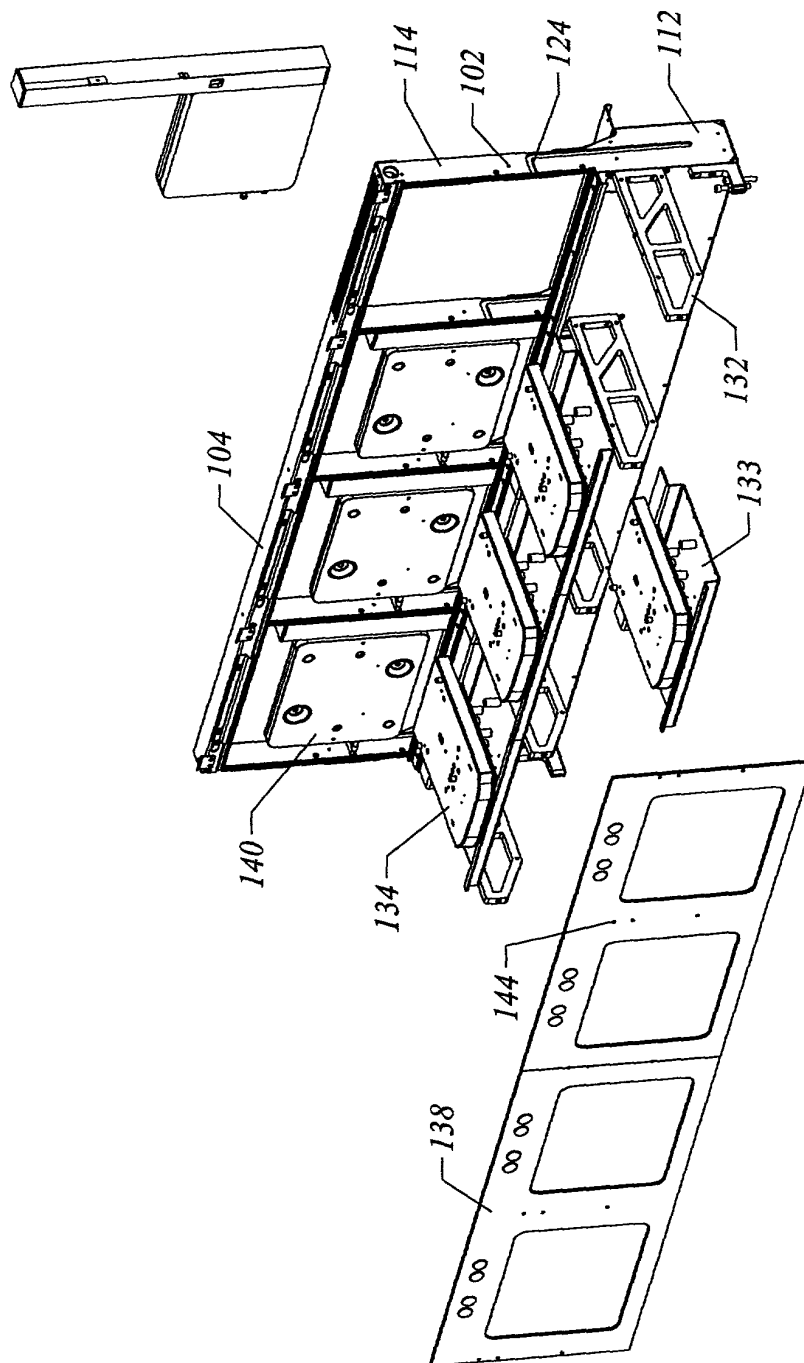


FIG. 7

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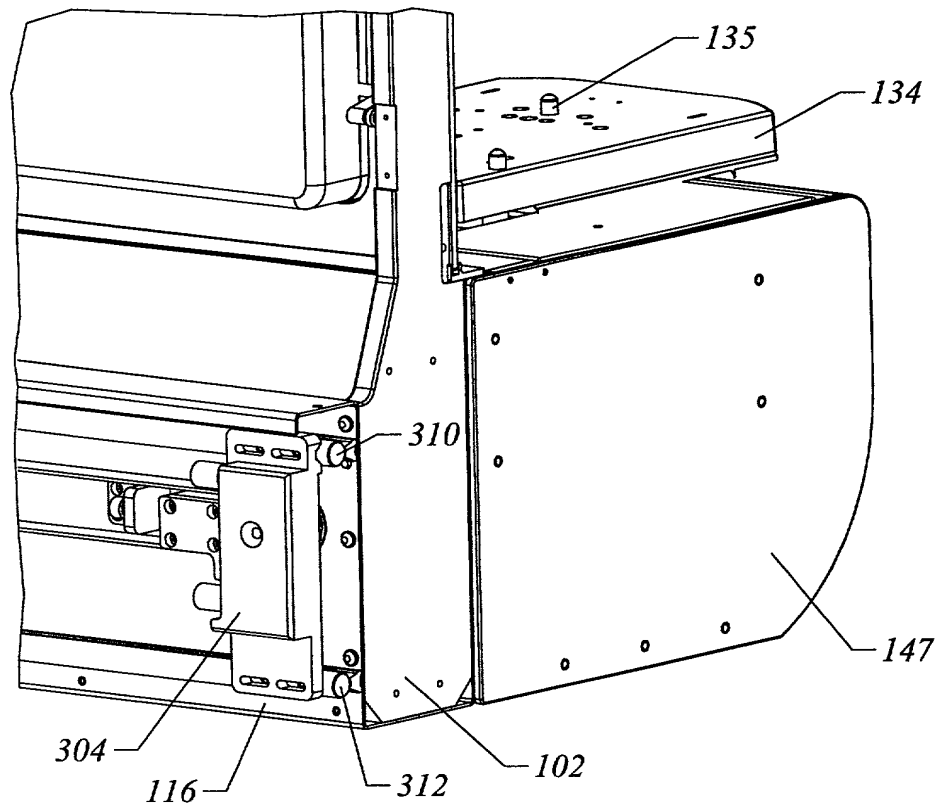


FIG. 9

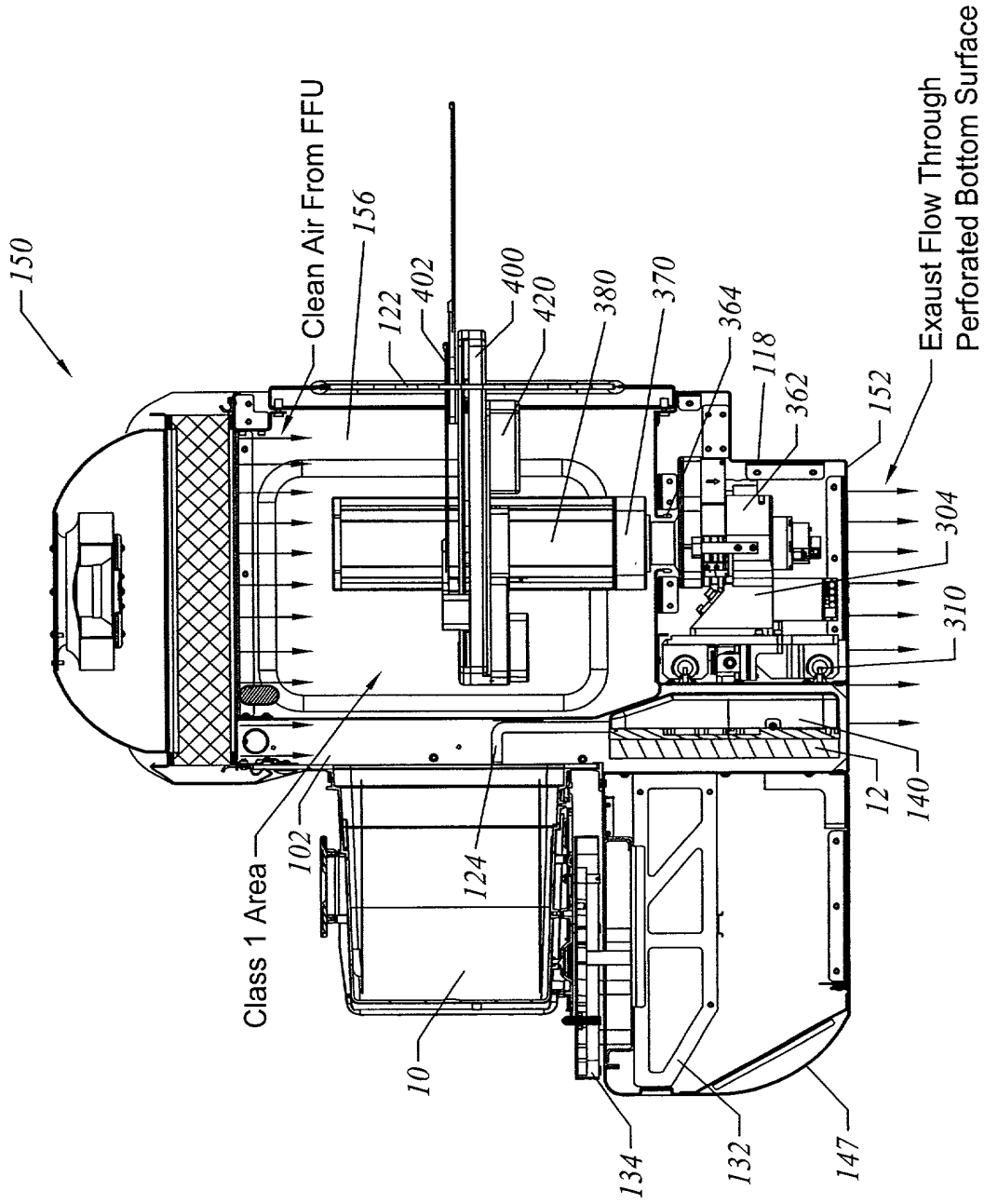


FIG. 10

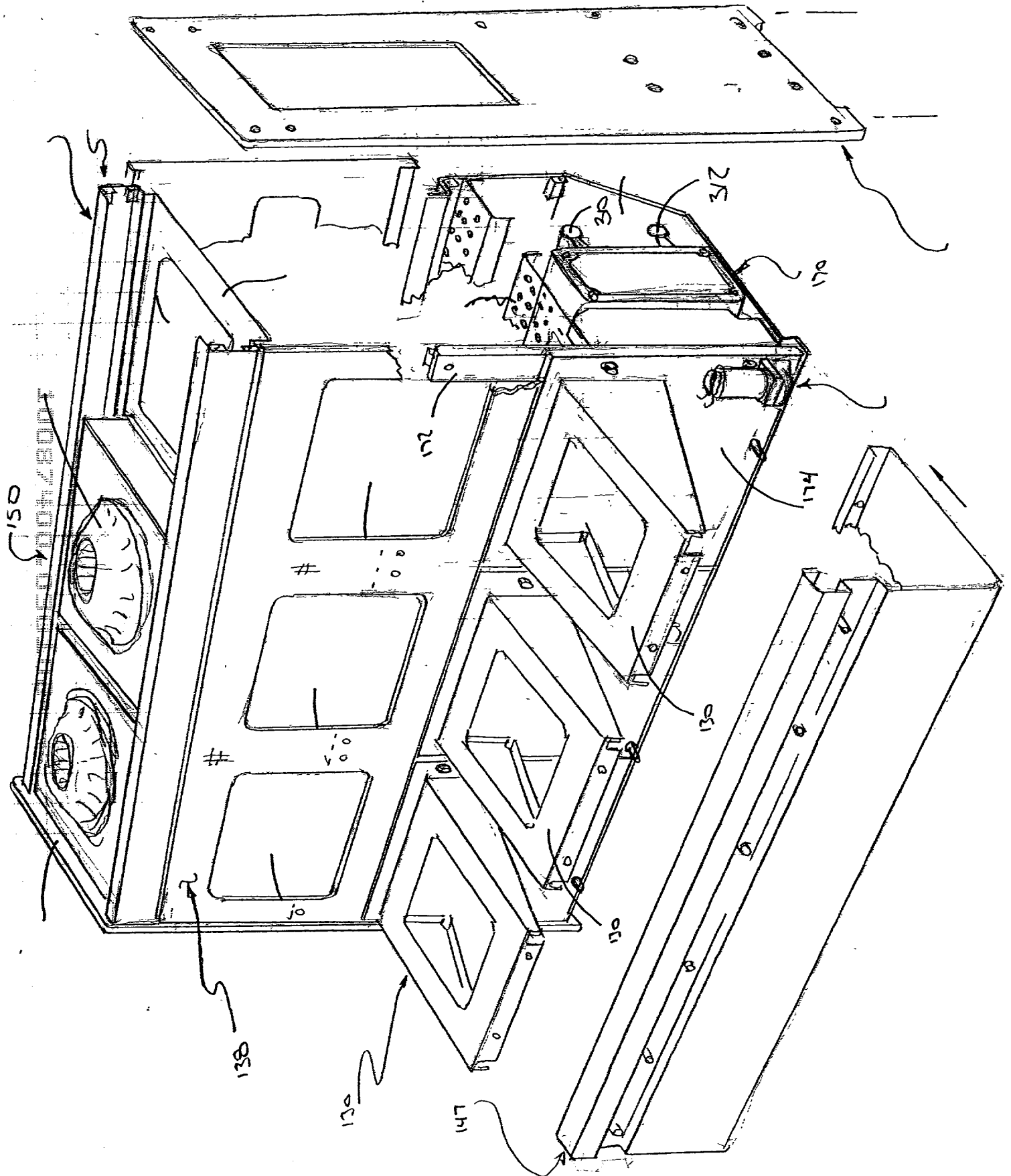


FIG. 11

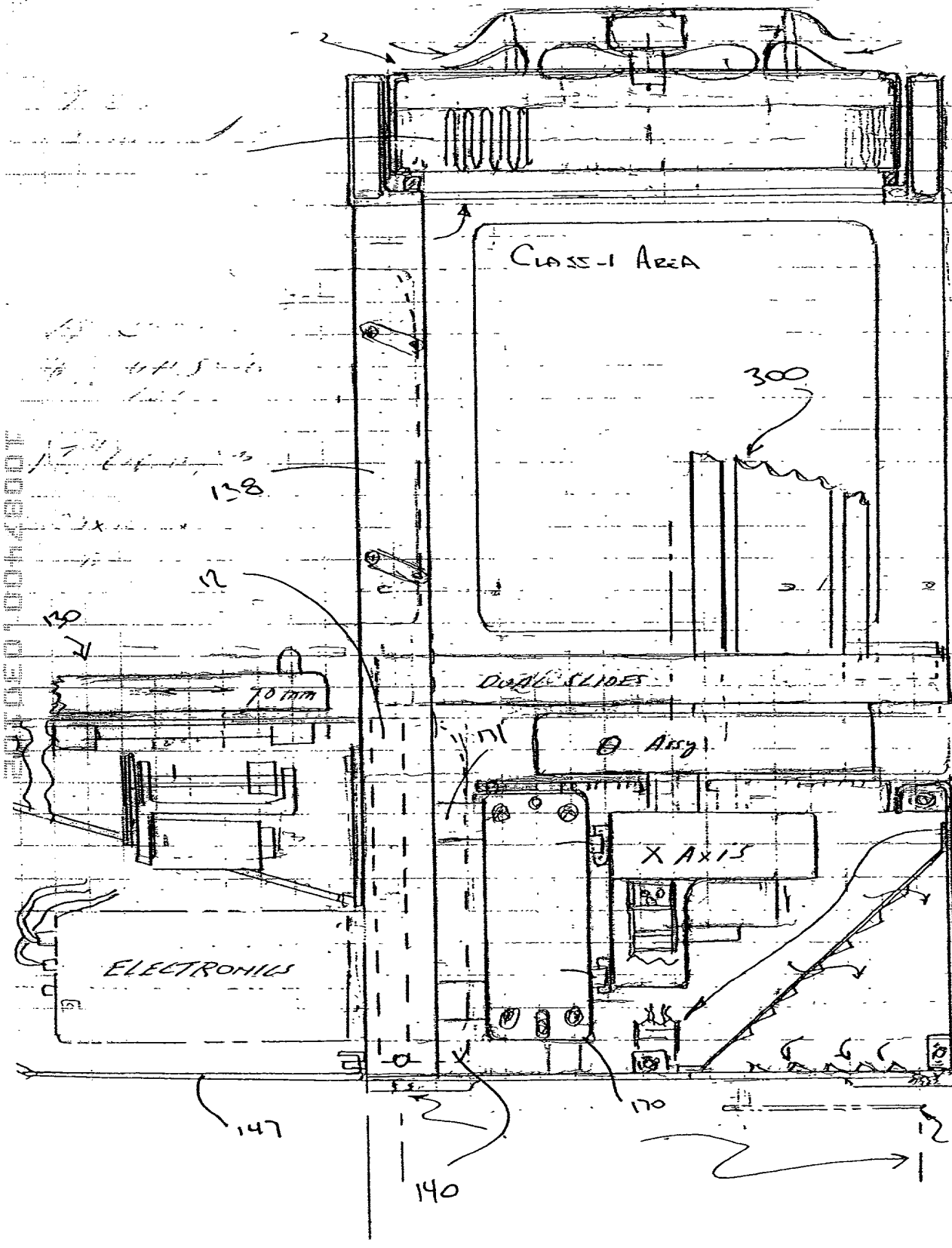


FIG. 12

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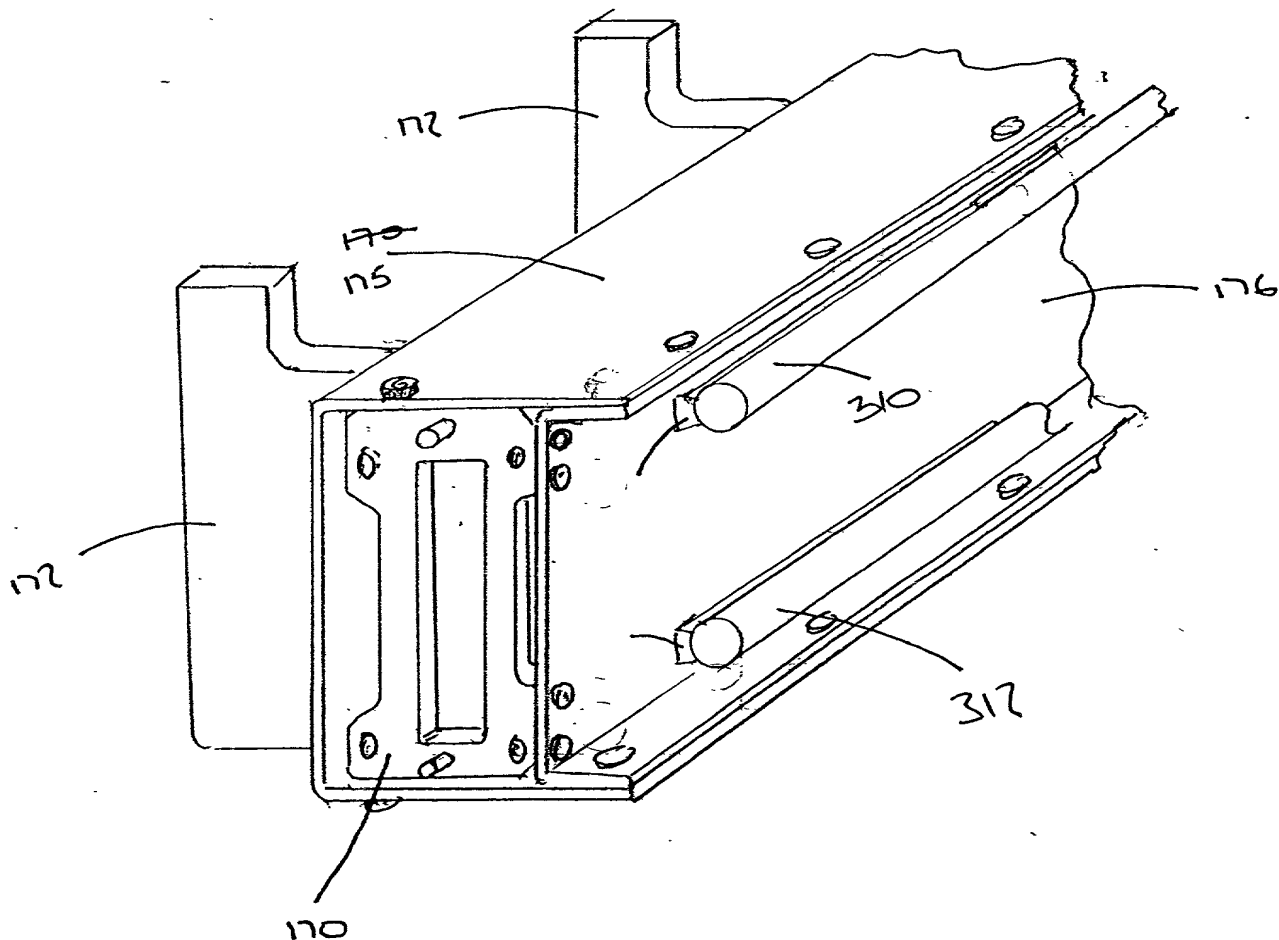


FIG. 13

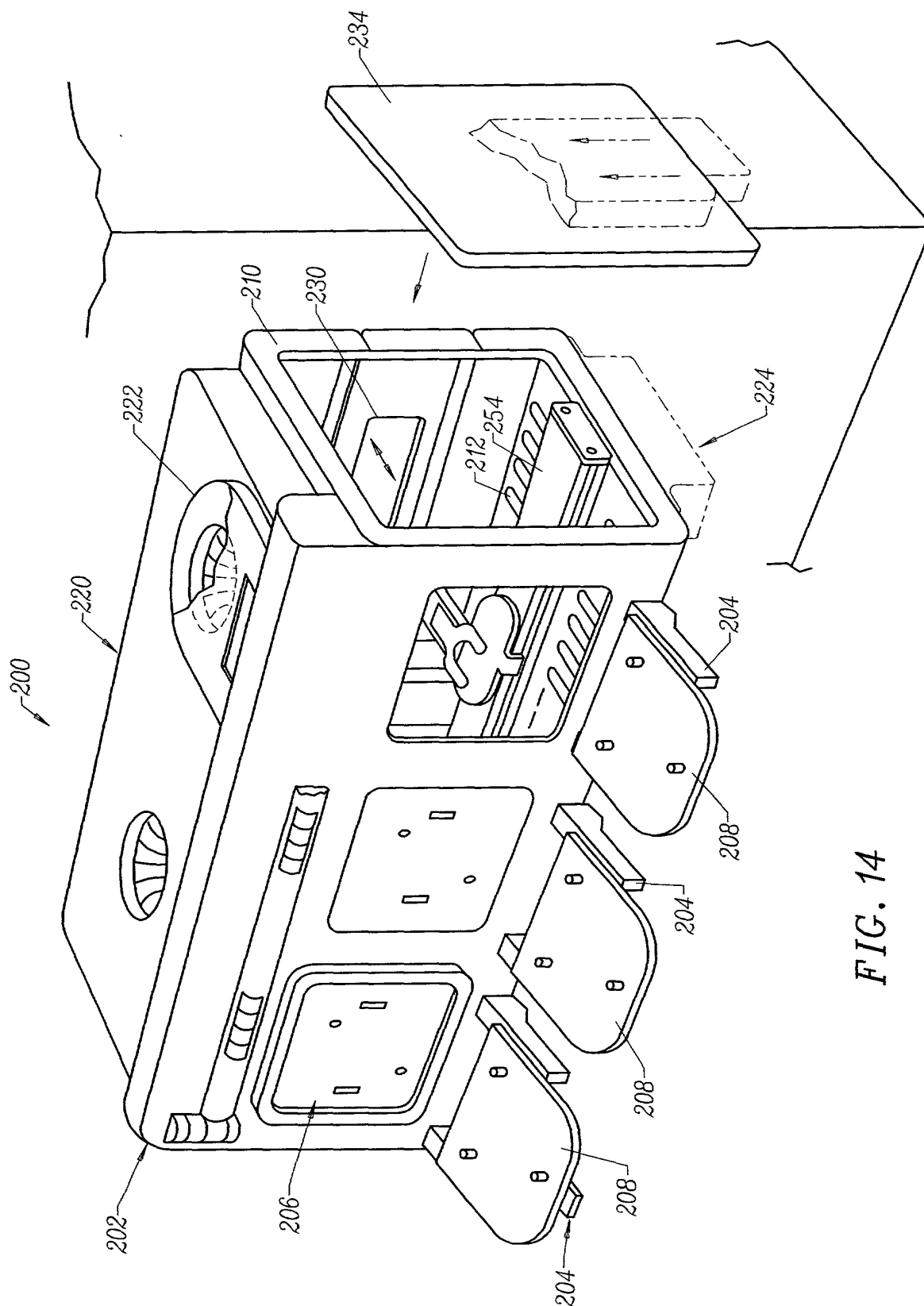


FIG. 14

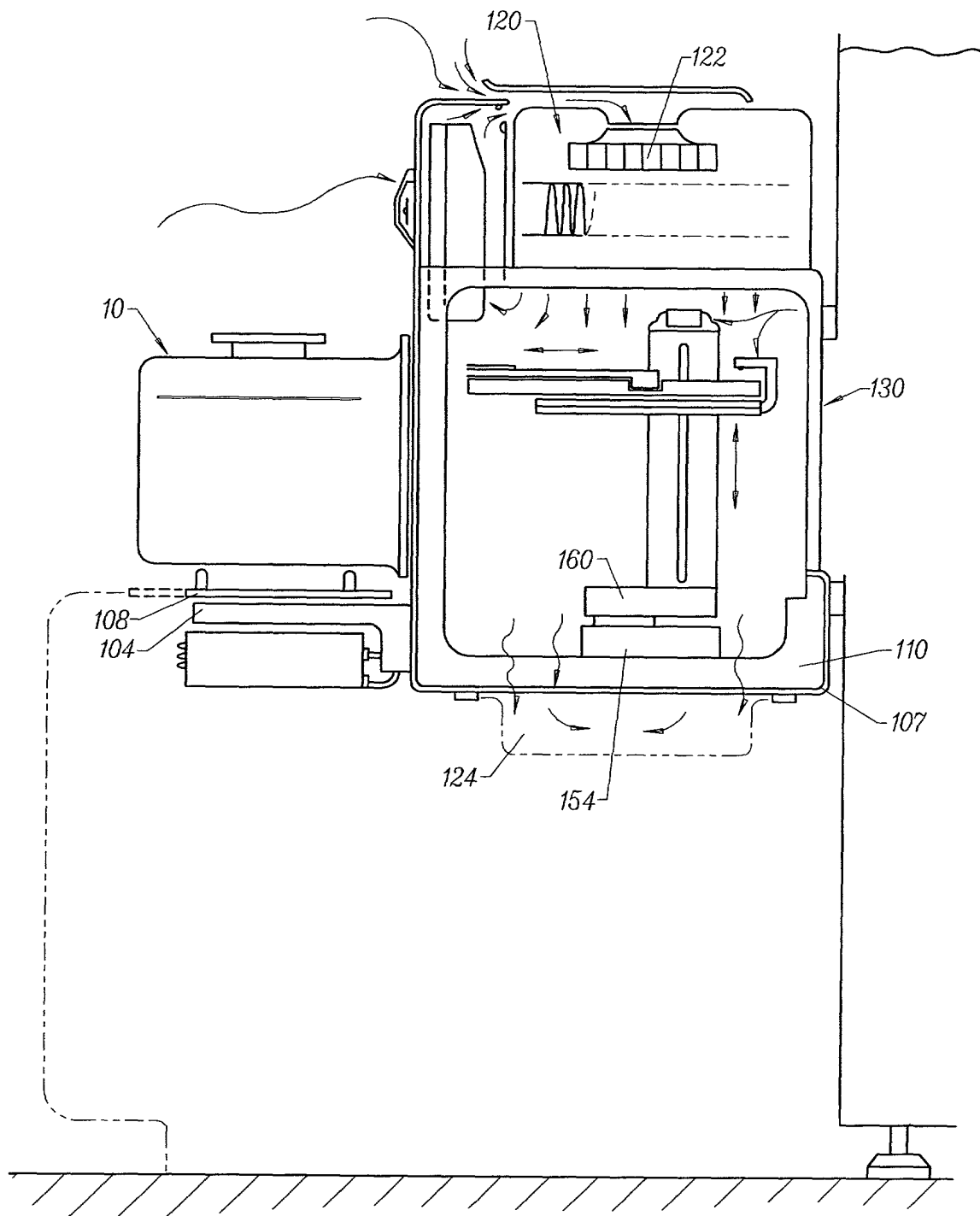


FIG. 15

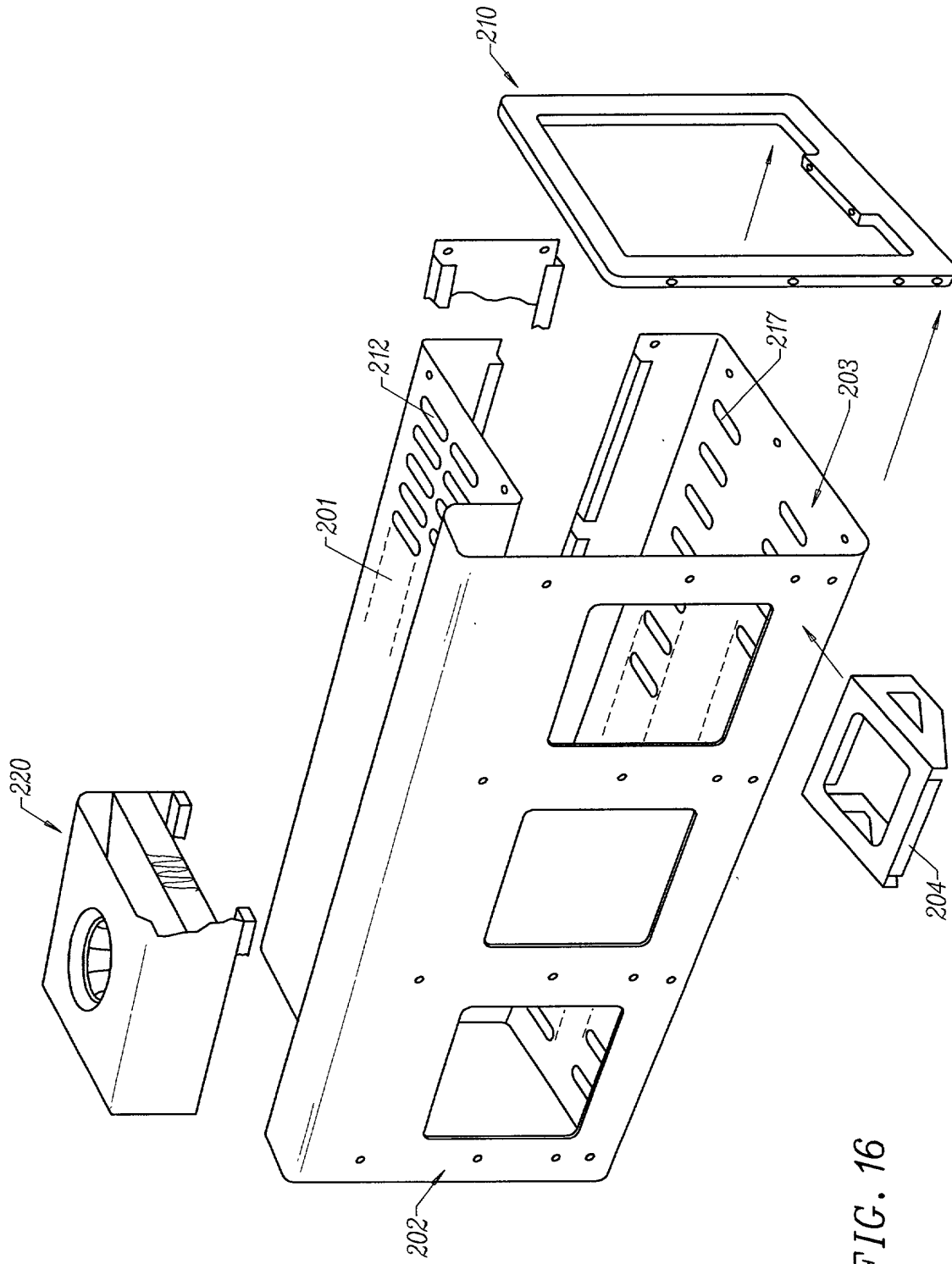
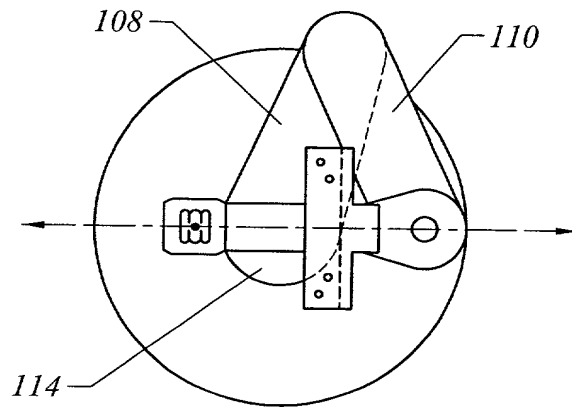
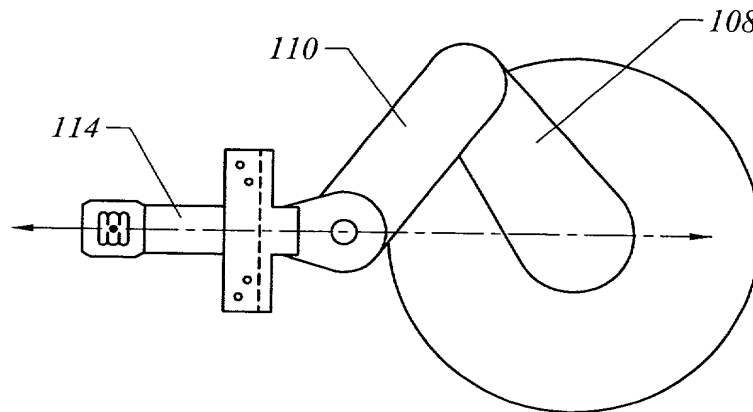


FIG. 16





*FIG. 17A*  
(Prior Art)



*FIG. 17B*  
(Prior Art)

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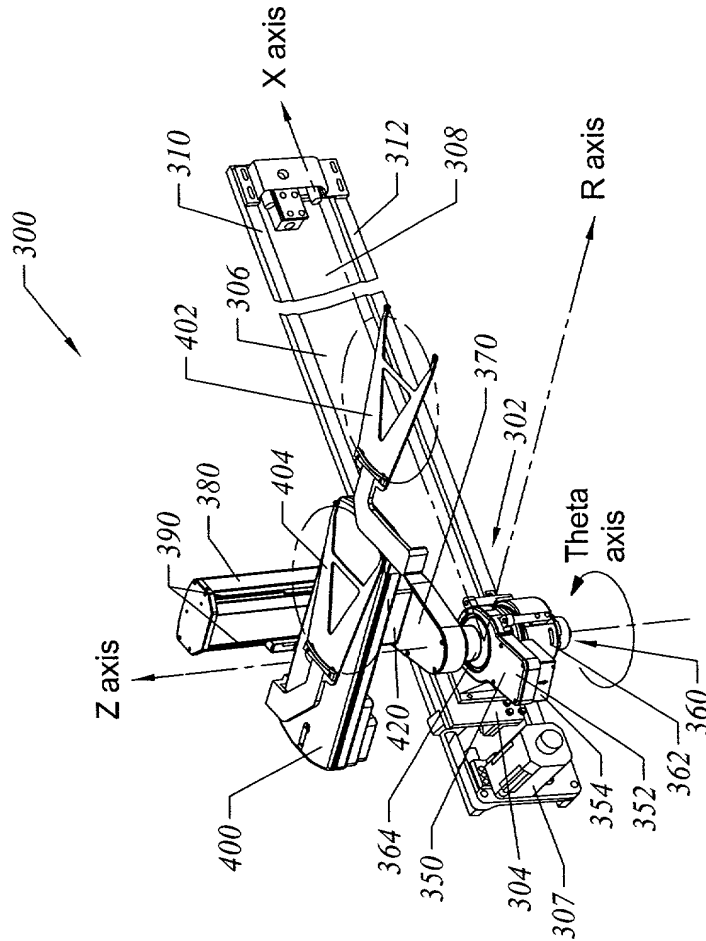


FIG. 18

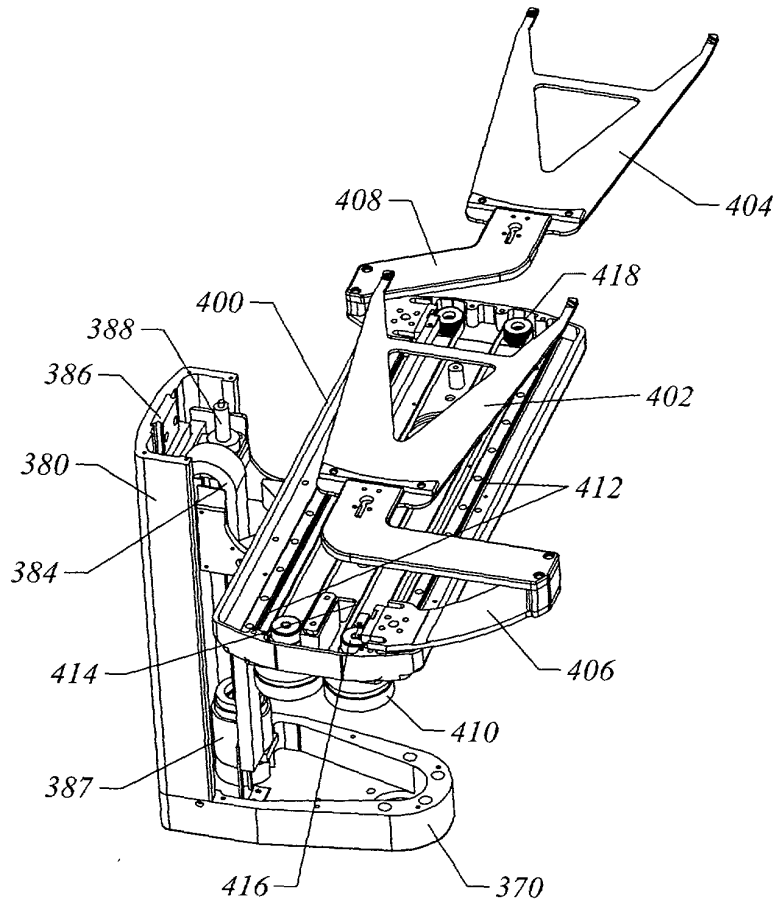


FIG. 19

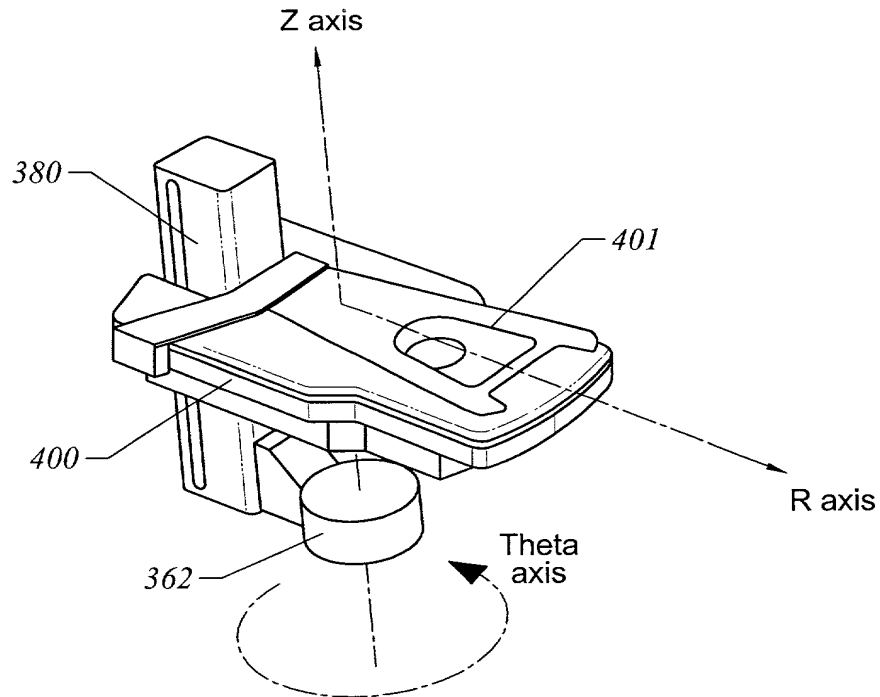


FIG. 20

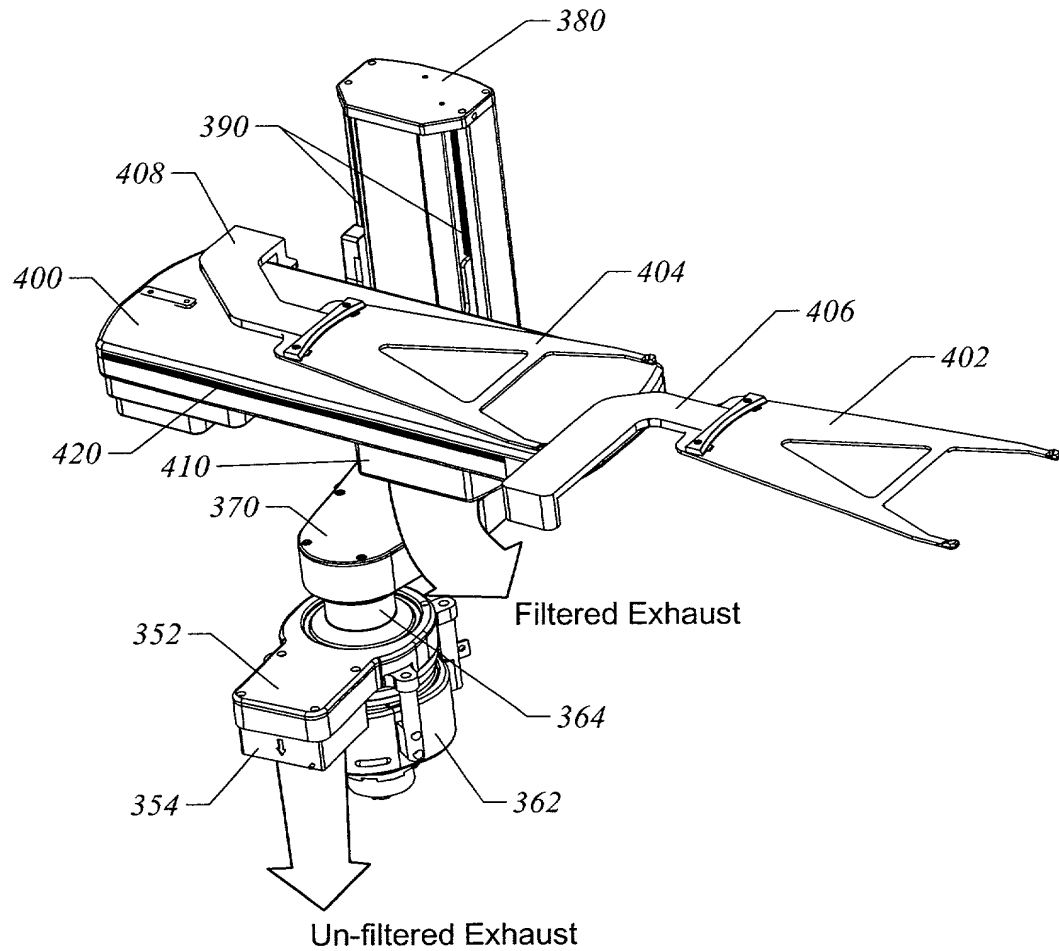


FIG. 21

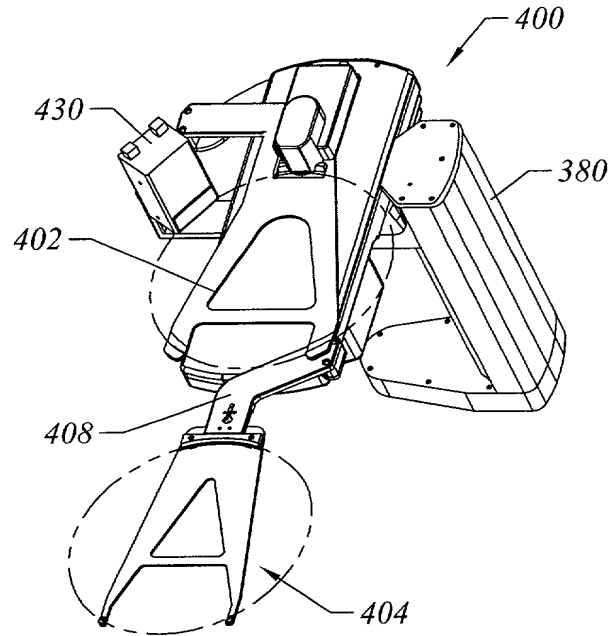


FIG. 22A

10087400.030102

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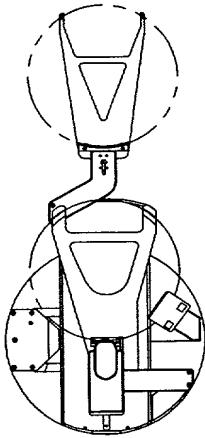


FIG. 22B

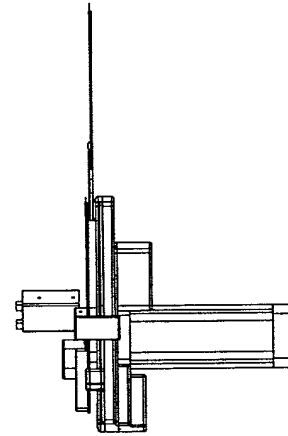


FIG. 22C

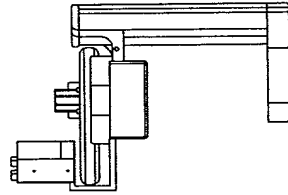


FIG. 22D

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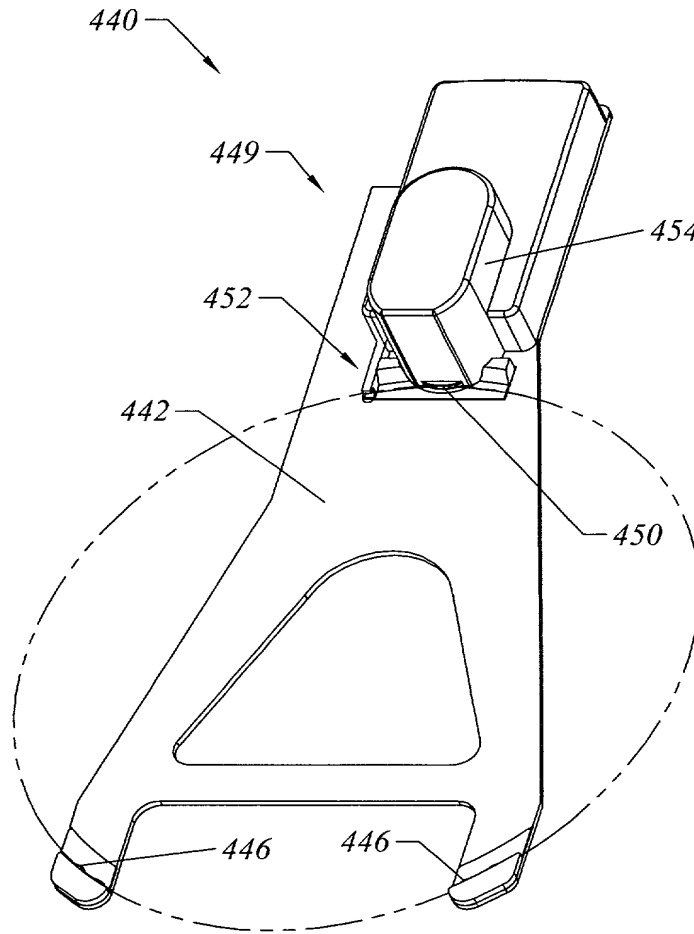


FIG. 23



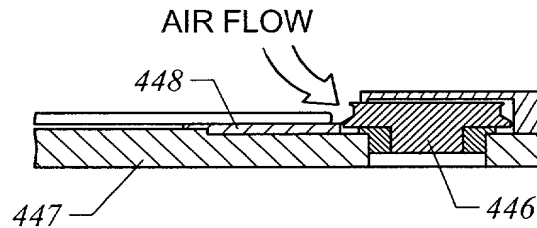


FIG. 24A

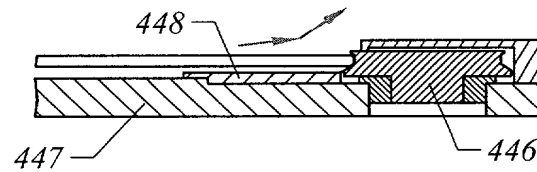


FIG. 24B

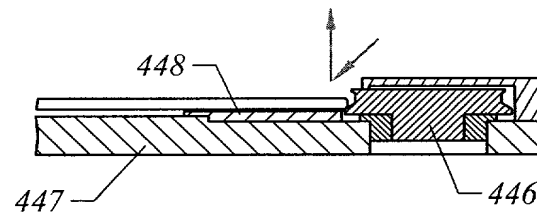


FIG. 24C

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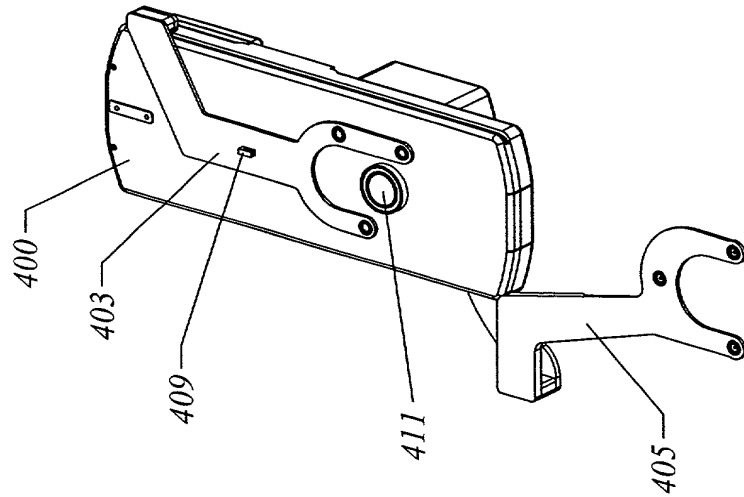


FIG. 26B

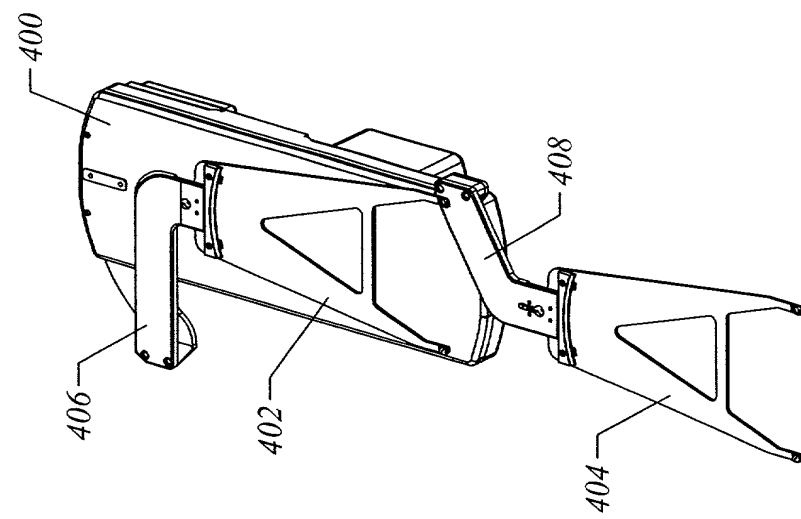


FIG. 26A

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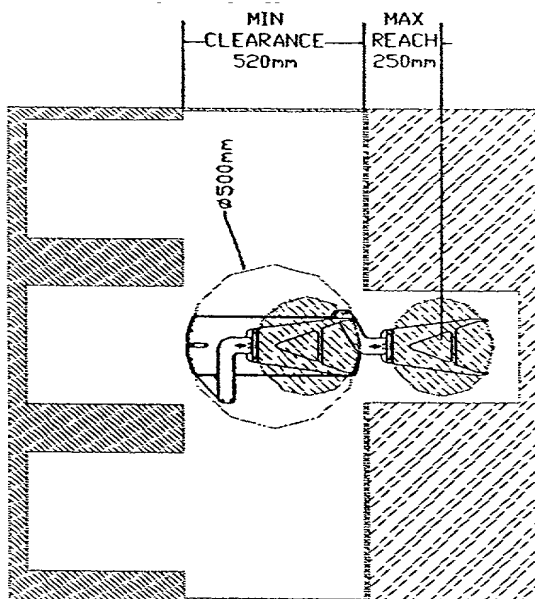
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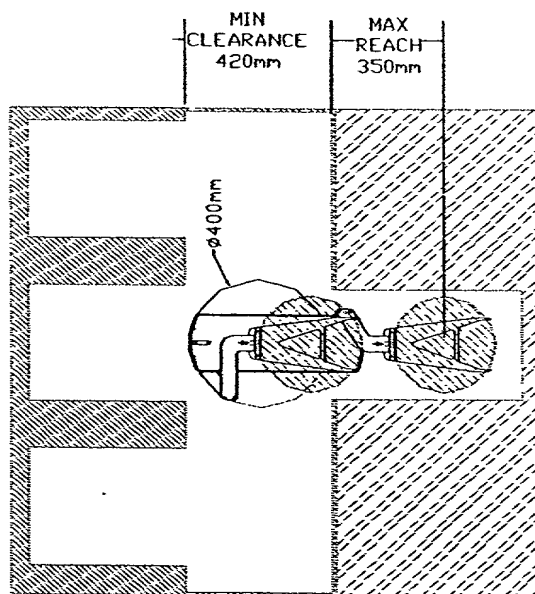
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Conventional Linear Slide Robot



Off-Center Slide-Body (50mm offset)



EFEM Process Tool

FK.27A

FK.27B

Example motion sequence for rapid swap slide-body with off center rotation axis.

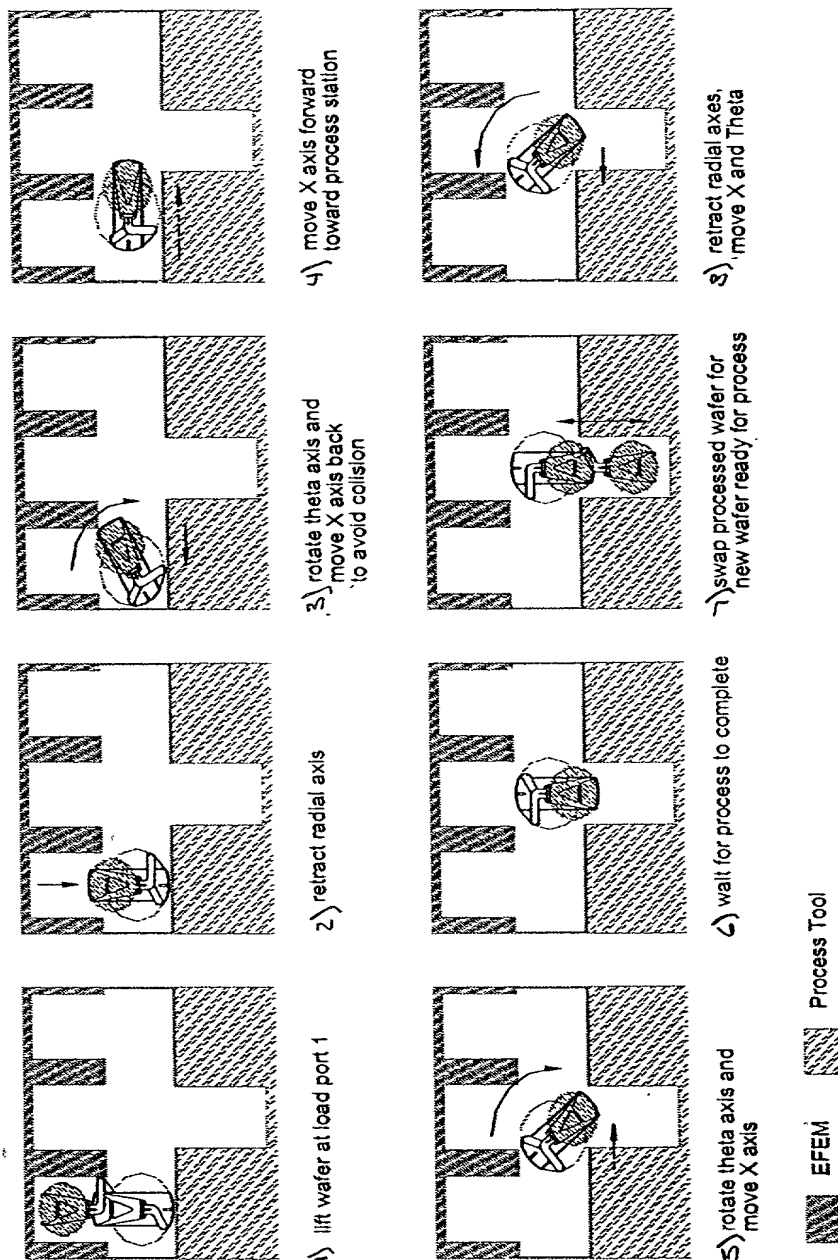


FIG. 28

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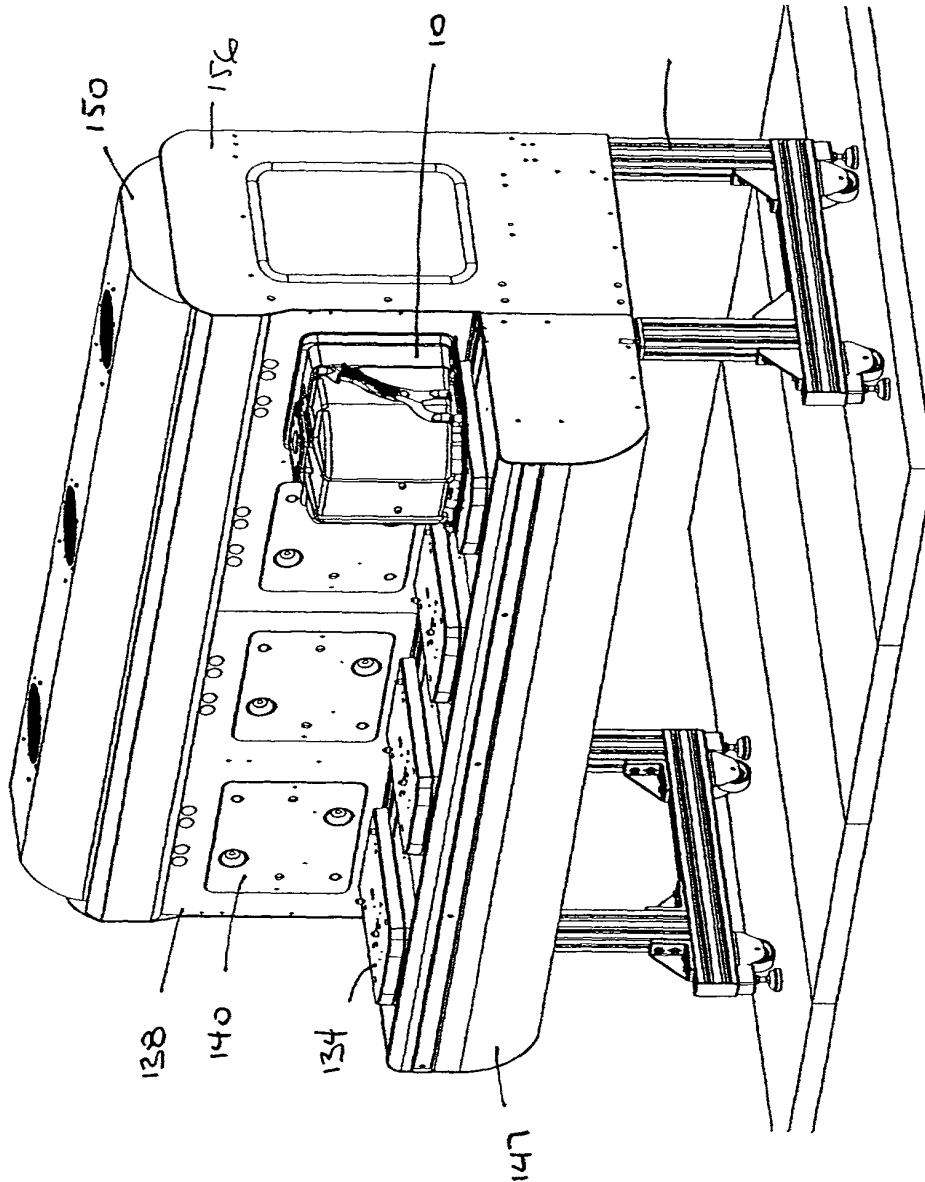


FIG. 29A

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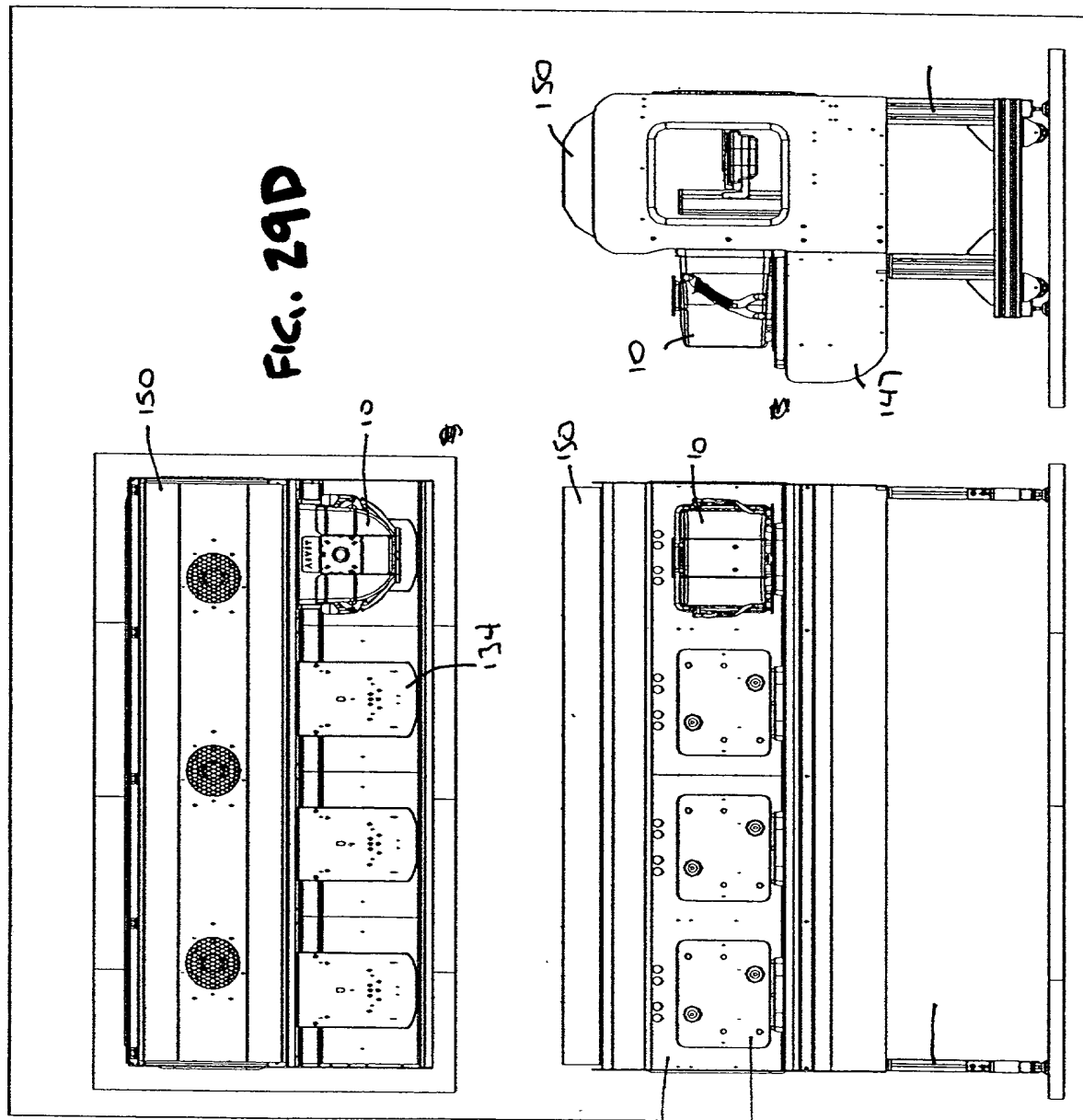


FIG. 29C

FIG. 29B

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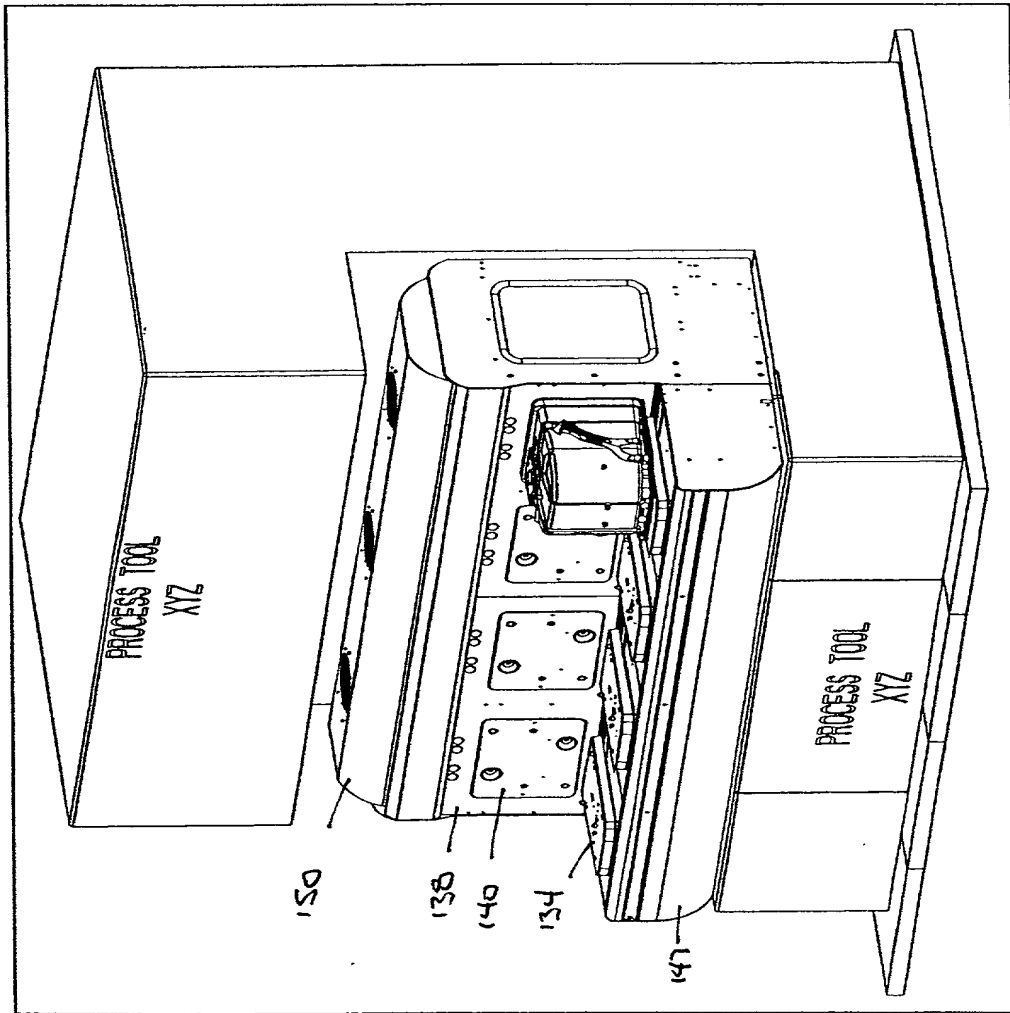


FIG. 30A



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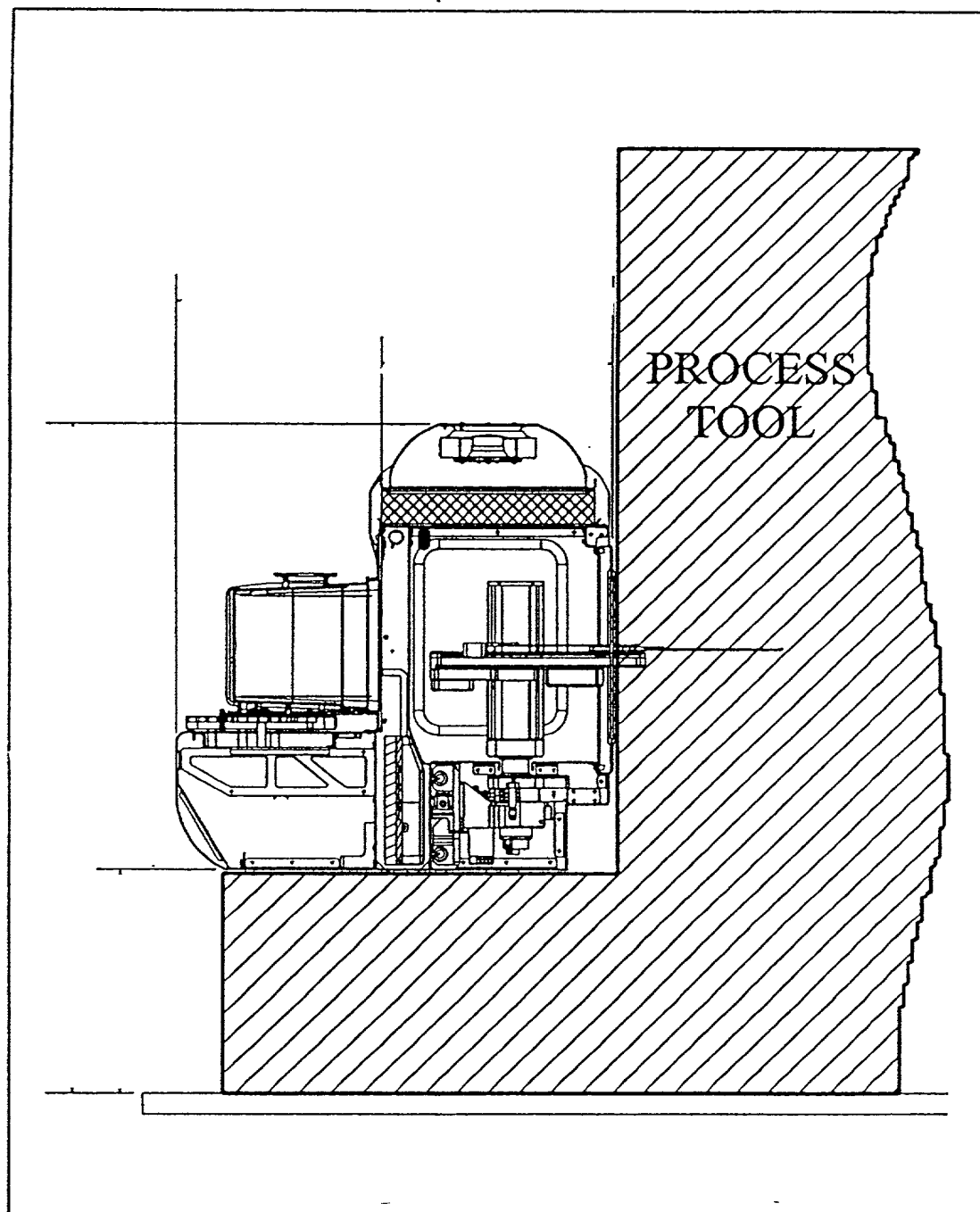


FIG. 30B

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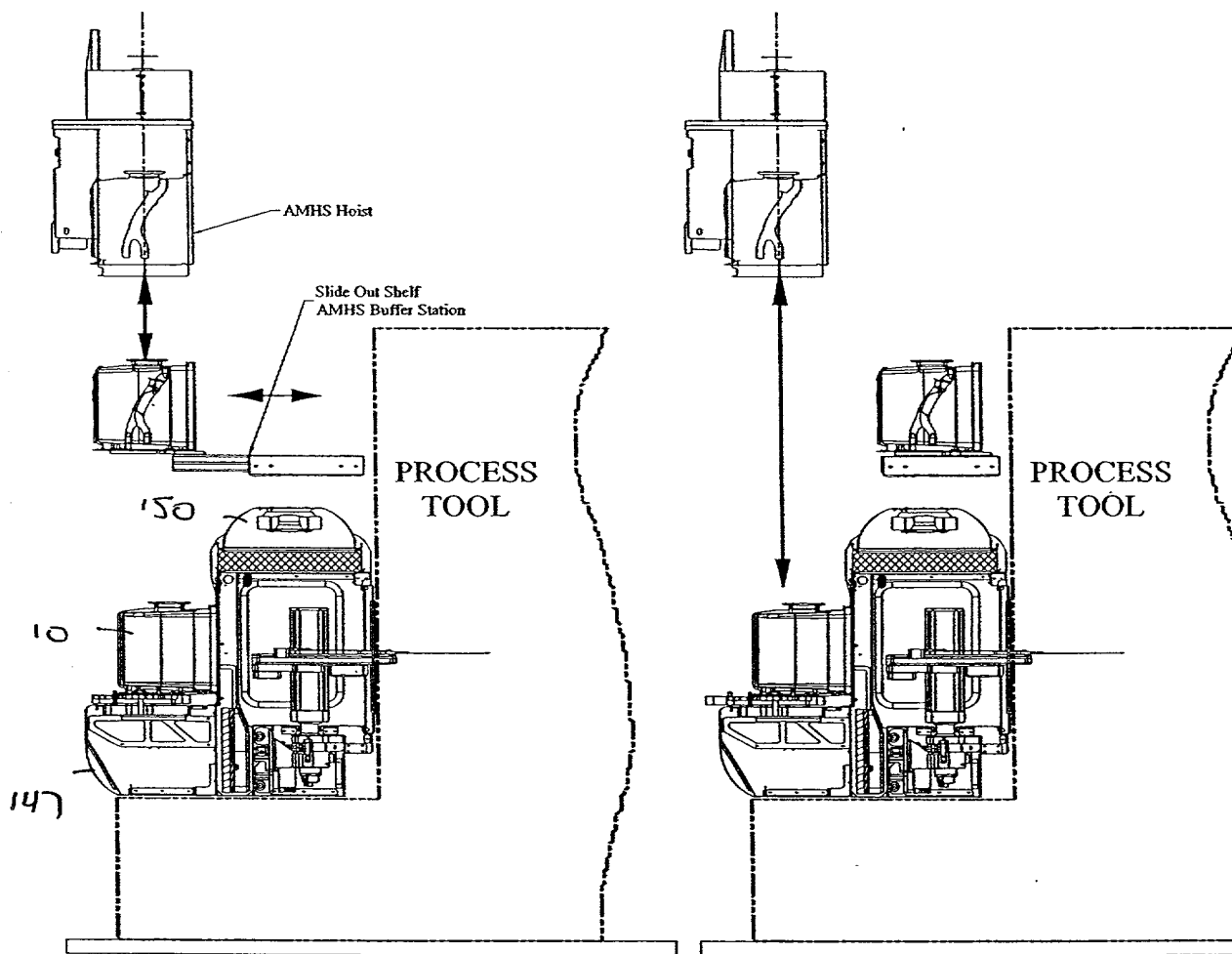


FIG. 31

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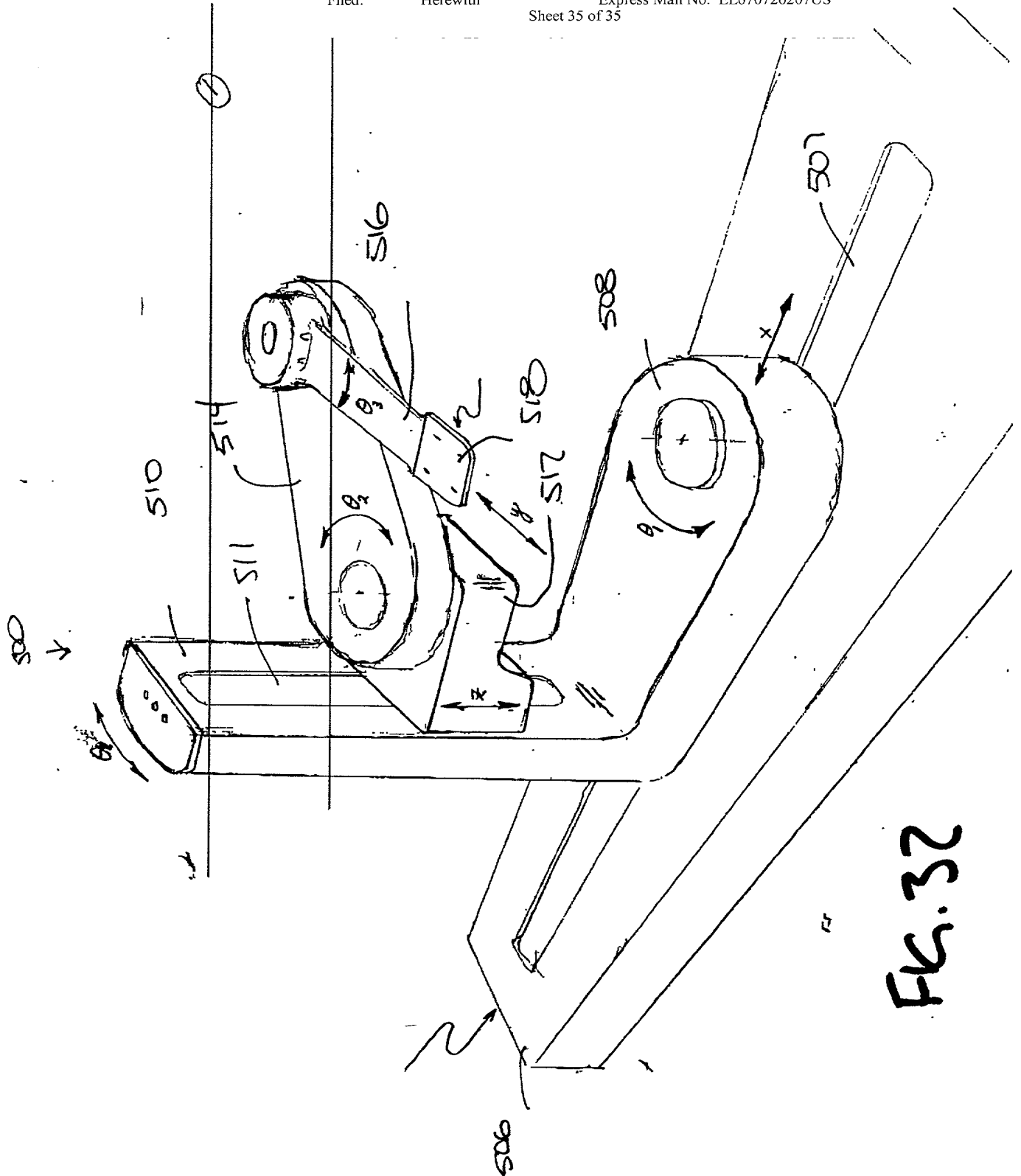


FIG. 32

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